

## Bellringer

→ What is a biome?

an area characterized by a certain climate and unique animals + plants

→ Describe 2 biotic and 2 abiotic limiting factors.

2 biotic disease predation  
2 abiotic weather, rocks, nutrients,  $H_2O$

→ How is the environment organized?

organisms → populations → communities → <sup>Ecosystem</sup> biosphere

May 7-10:34 AM

## Bellringer

→ Name 4 biomes. Describe the biome in detail.

Coniferous Forest, Desert, Grasslands, tundra  
Savannah, Rainforest

→ List 2 biotic and 2 abiotic factors.  
trees, flowers                      nutrients

→ What are the levels of environmental organization?

organism → pop. → communities → <sup>Ecosystem</sup> Biosphere

May 9-12:05 PM

# Biomes Review

Grade: 7th  
Subject: Life Science  
Date:

May 7-10:30 AM

1 Which of the following if an abiotic factor in a biome?

- A the kind of trees
- B the number of insect species
- C the average temperature
- D the mosses and algae

May 7-10:41 AM

2 Which of the following is a biotic factor in a biome?

- A the quality of soil
- B the amount of rainfall
- C the presence of ponds and lakes
- D the kinds of grasses

May 7-10:42 AM

3 The \_\_\_\_\_ biome has scattered clumps fo trees and seasonal rains.

May 7-10:42 AM

4 The \_\_\_\_\_ biome has trees that produce seeds in cones.

May 7-10:43 AM

5 The \_\_\_\_\_ biome has permafrost.

May 7-10:43 AM

6 The \_\_\_\_\_ biome has trees that lose their leaves during the winter or the dry season.

May 7-10:44 AM

7 The \_\_\_\_\_ biome has the greatest diversity of plant and animals of any biome.

May 7-10:45 AM

8 The \_\_\_\_\_ biome is very dry and often very hot.

May 7-10:47 AM

vapor vs gas  
liquid  $\rightarrow$  room temp

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What is relative humidity?  
ratio of amount  $H_2O$  vapor in air to amount needed to reach saturation  
absolute humidity

→ Name 4 weather instruments.

radiosonde, thermometer, barometer, hydrometer, wind anemometer, wind vane

→ What is the difference between weather and climate? → long-term atmospheric conditions

→ What are the four "major" types of air masses?

maritime, continental, polar, tropical

May 9-8:58 AM

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- What are the two types of fermentation?  
 lactate  $\leftarrow$  lactic acid, alcohol
- Compare + contrast Speciation.  $\uparrow$  ETC  $\uparrow$  NADPH  $\uparrow$  TSP  $\uparrow$  allopatric physical barrier + sympatric mutations  $\uparrow$  NADPH  $\uparrow$  FADH<sub>2</sub>
- How do photosynthesis and cellular respiration relate?  
 $O_2 + H_2O$   $\rightarrow$   $C_6H_{12}O_6$   $\rightarrow$  ETC
- What is "free energy"?  $\rightarrow$  Gibbs  $\rightarrow$  chemiosmosis  $\rightarrow$  #1
- What is a biome?  $\rightarrow$  Grasslands  $\rightarrow$  Tundra
- Suppose 50 fish are born in year 1. There are only 36 left in year 2 and 22 left in year 3. What is the mortality rate between years 2 & 3?
- $$\frac{14}{36} \quad \frac{28}{50}$$

May 9-10:04 AM

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- Grassland  $\rightarrow$  Describe 3  $\rightarrow$  latitude biomes.  $\rightarrow$  Savannah - seasonal rain  $\rightarrow$  Tundra; cold permafrost  $\rightarrow$  evergreen
- What is the "inter-tidal" zone?  
 intertidal  $\rightarrow$  Desert; extreme temps dry  $\rightarrow$  specialized  $\rightarrow$  Tundra: 14-17in  $\rightarrow$  Coniferous  $\rightarrow$  26in  $\rightarrow$  10in
- What is the "oceanic" zone?  
 deep ocean zone  $\rightarrow$  open
- What are the levels of environmental organization?  
 org  $\rightarrow$  pop  $\rightarrow$  com  $\rightarrow$  Ecosystem  $\rightarrow$  biosphere

May 12-1:08 PM

# Marine Ecosystems Review

Grade: 7th  
Subject: Life Science  
Date:

May 9-8:51 AM

1 The base of the ocean's food chains is formed by ...

- A blue whales
- B coral reefs
- C plankton
- D sargassums

✓

May 9-8:52 AM



2 Which of the following is NOT a key abiotic factor in marine ecosystems?

- A water temperature
- B water depth
- C amount of sunlight
- D amount of plankton

↙  
= living = biotic

May 9-8:53 AM

3 The place where the ocean meets the land is the ...

- A intertidal zone
- B neritic zone
- C oceanic zone
- D benthic zone

May 9-8:53 AM

4 The ocean floor, some part of which get no sunlight, is the ...

- A intertidal zone
- B neritic zone
- C oceanic zone
- D benthic zone

May 9-8:54 AM

5 The area that contains the deep water of the open ocean and is where the sea floor drops sharply is the...

- A intertidal zone
- B neritic zone
- C oceanic zone
- D benthic zone

May 9-8:55 AM

6 The area that has warm, sunlit water and is where the ocean floor begins to slope downward is the ...

- A intertidal zone
- B neritic zone
- C oceanic zone
- D benthic zone

May 9-8:56 AM

7 A \_\_\_\_\_ is made of the skeletons of small animals.

coral reef

May 9-8:56 AM

8 The Sargasso Sea contains huge, floating rafts of algae

May 9-8:57 AM

9 A \_\_\_\_\_ contains both salt and fresh water.

estuary

May 9-8:57 AM

# Marine Ecosystems Review

Grade: 7th

Subject: Life Science

Date:

May 12-11:14 AM

1 Which is NOT an example of how an organism adapts to living in fast-moving water?

- A algae attach to rocks
- B insects live under rocks
- C fish live in mud
- D tadpoles use suction disks

May 12-11:17 AM

2 Many plants can grow in the littoral zone of a lake because...

- ☒ A sunlight reaches its bottom
- ☐ B there are no algae
- ☐ C there are no animals
- ☐ D there is both salt and fresh water

May 12-11:19 AM

3 The main food for organisms in the deep-water zone is...

- ☒ A photosynthetic plankton
- ☐ B live trout
- ☒ C dead organisms from above
- ☐ D as deep as sunlight reaches

May 12-11:21 AM

4 Where does the open-water zone of a lake end?

- A where the lakeshore begins
- B beneath the deep-water zone
- C above the littoral zone
- ☒ D as deep as sunlight reaches

May 12-11:23 AM

5 How do wetlands help replenish underground water supplies?

- ☒ A the water moves deeper into the ground
- B the tree roots soak up water
- C wetlands do not soak up spring snow melt
- D wetlands do not feed into lakes and rivers

May 12-11:24 AM

6 An ecosystem with wet soil, willow trees, and orchids is likely a...

A marsh

B swamp

C forest

D pond

no trees

trees

May 12-1:52 PM

May 12-1:52 PM